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Fig. 1

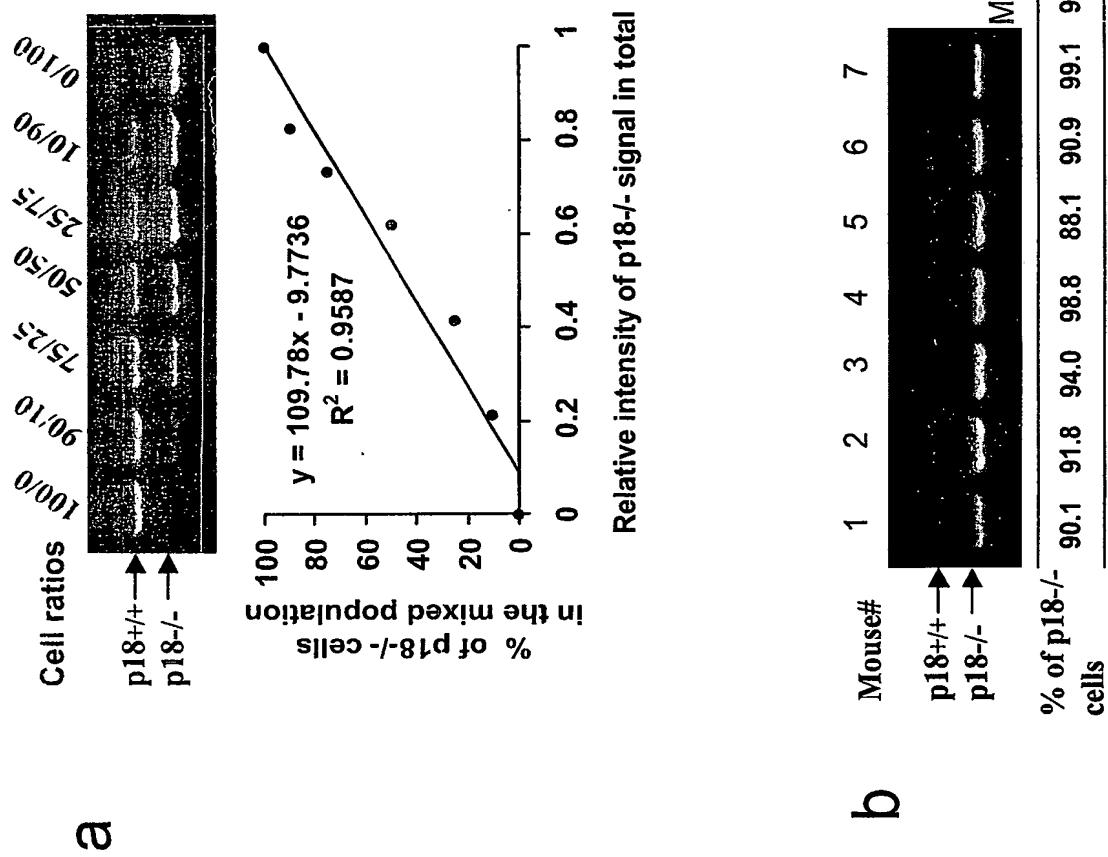


Fig. 2

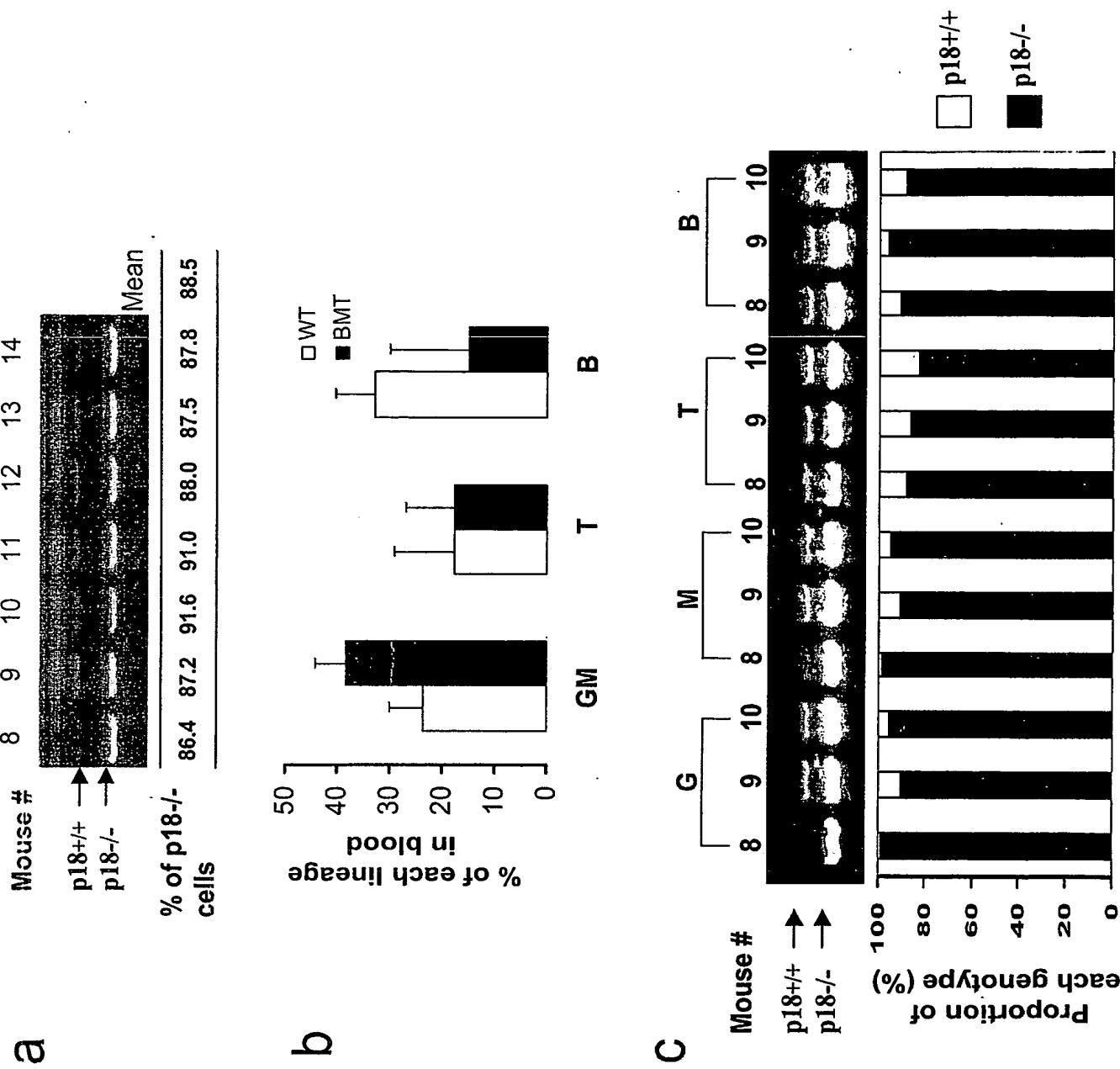


Fig. 3

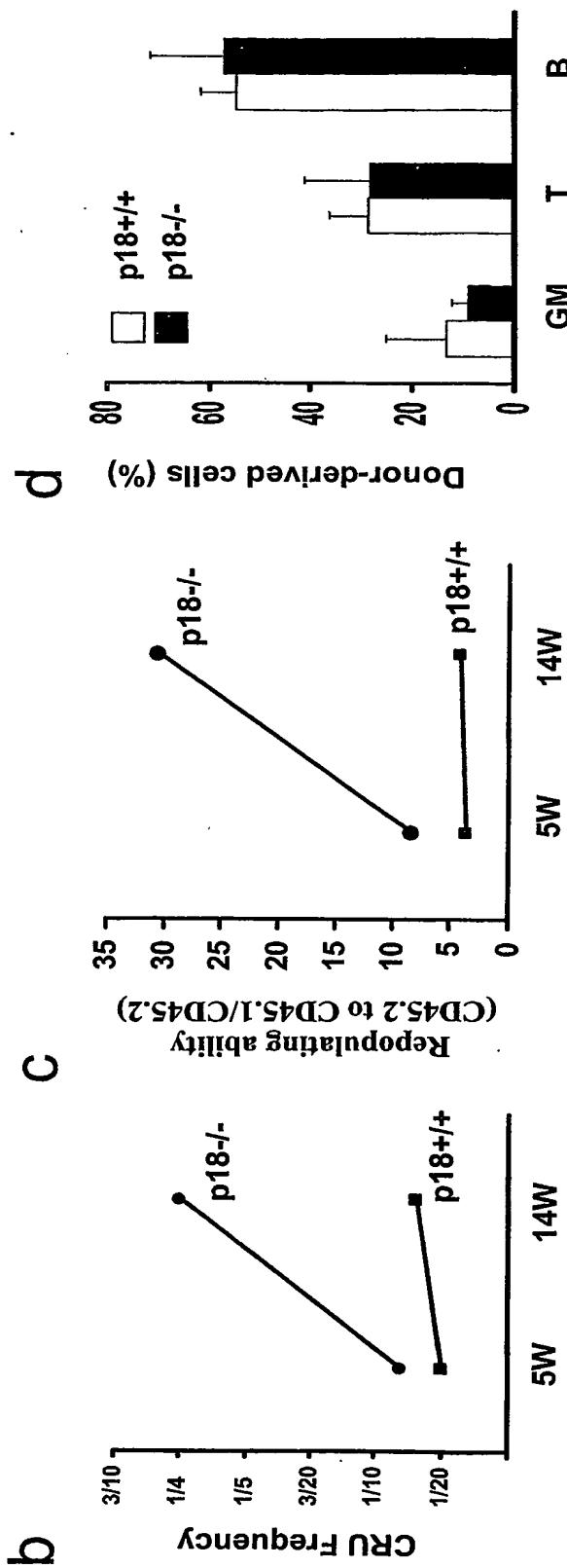
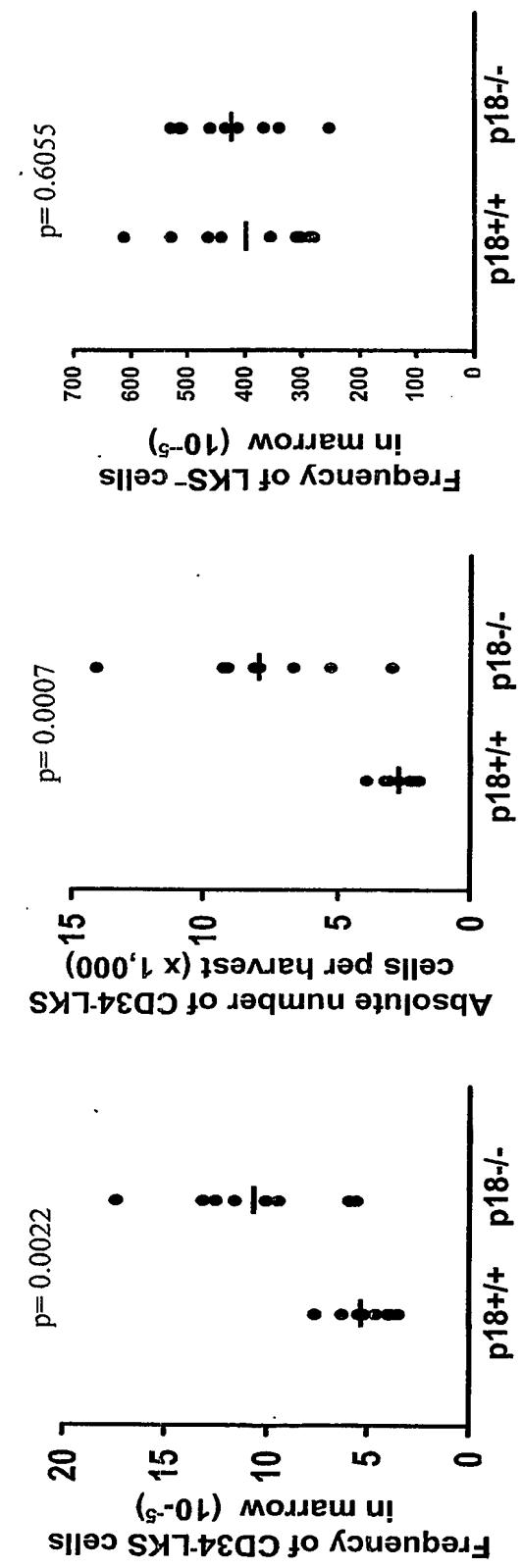


Fig. 4
a *Lin*⁺ *Lin*^{Sca-1+} *Lin*^{Sca-1-} *p18*^{+/+}

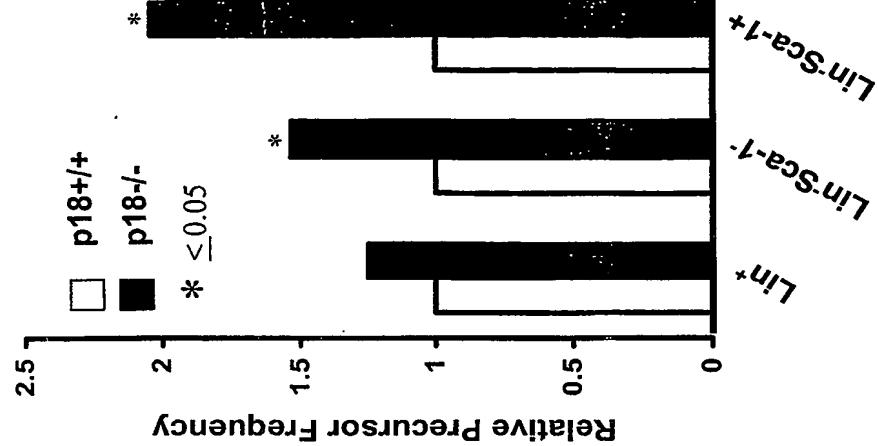
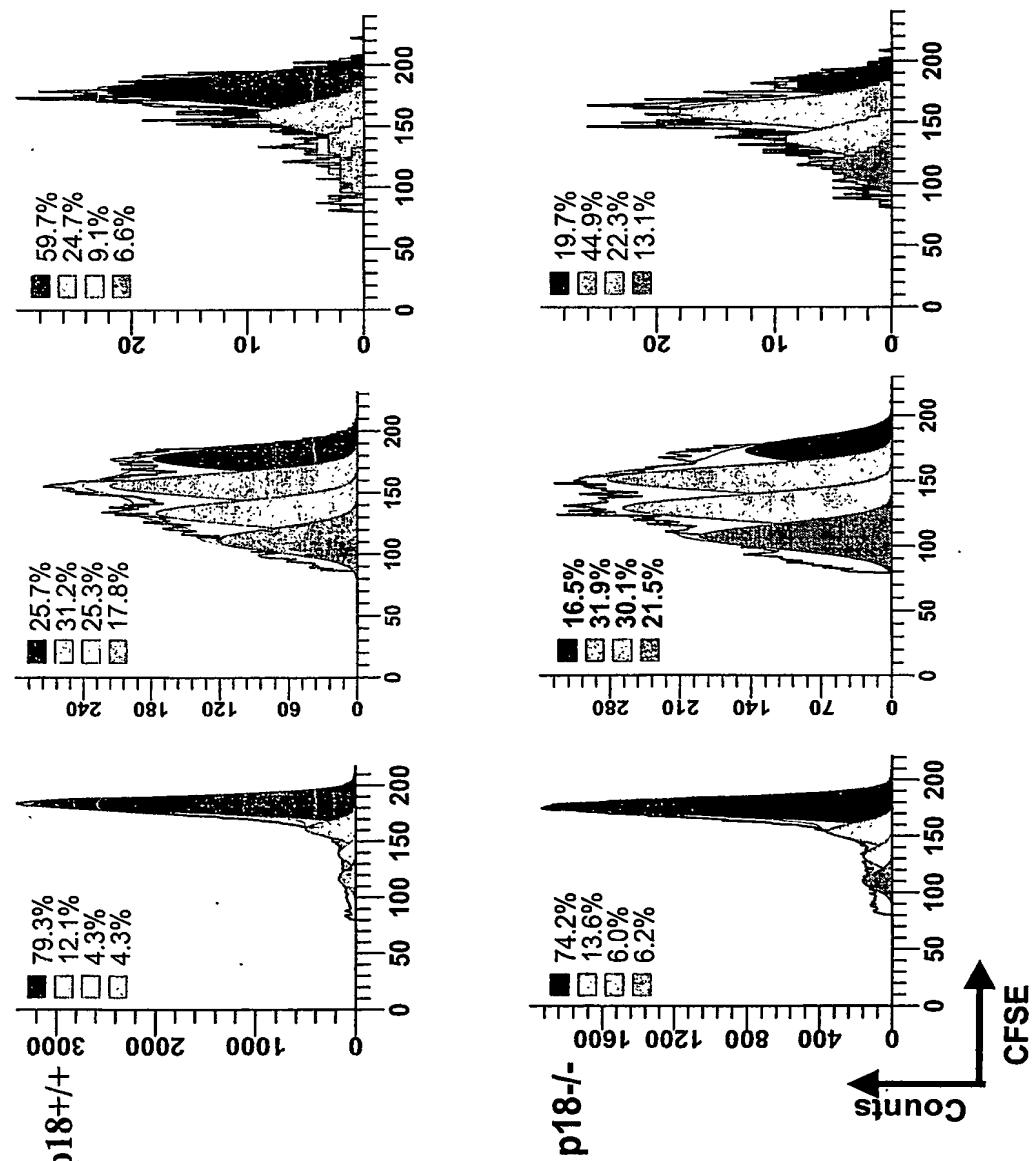
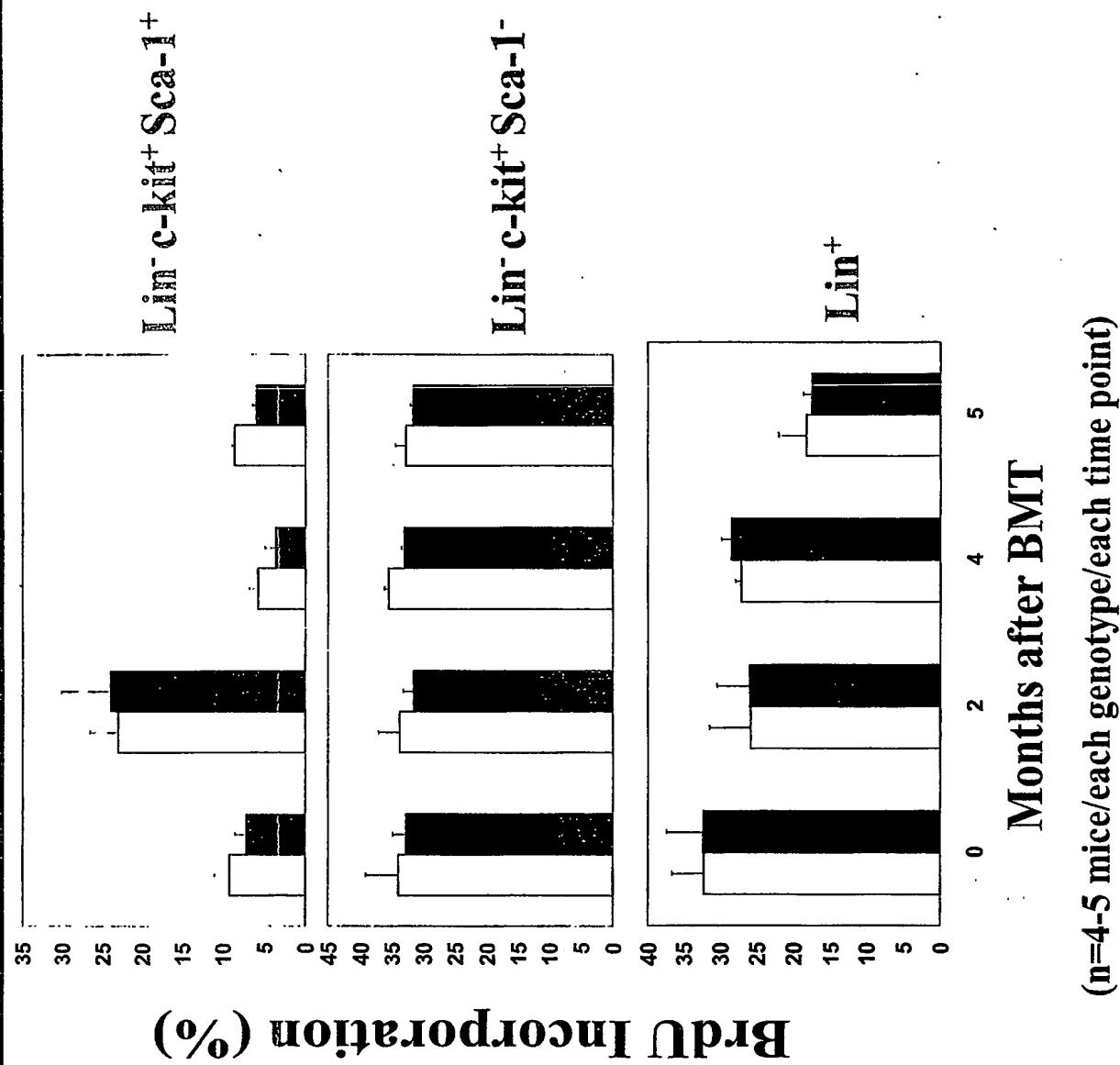


Fig. 5

There is no increase of BrdU incorporation in p18^{-/-} hematopoietic cell subsets from non-transplanted (month 0) or transplanted (month 2, 4, 5) animals



A similar proliferative rate between p18^{+/+} and p18^{-/-} genotypes during 3-day culture after single LKS cells from non-transplanted mice were plated

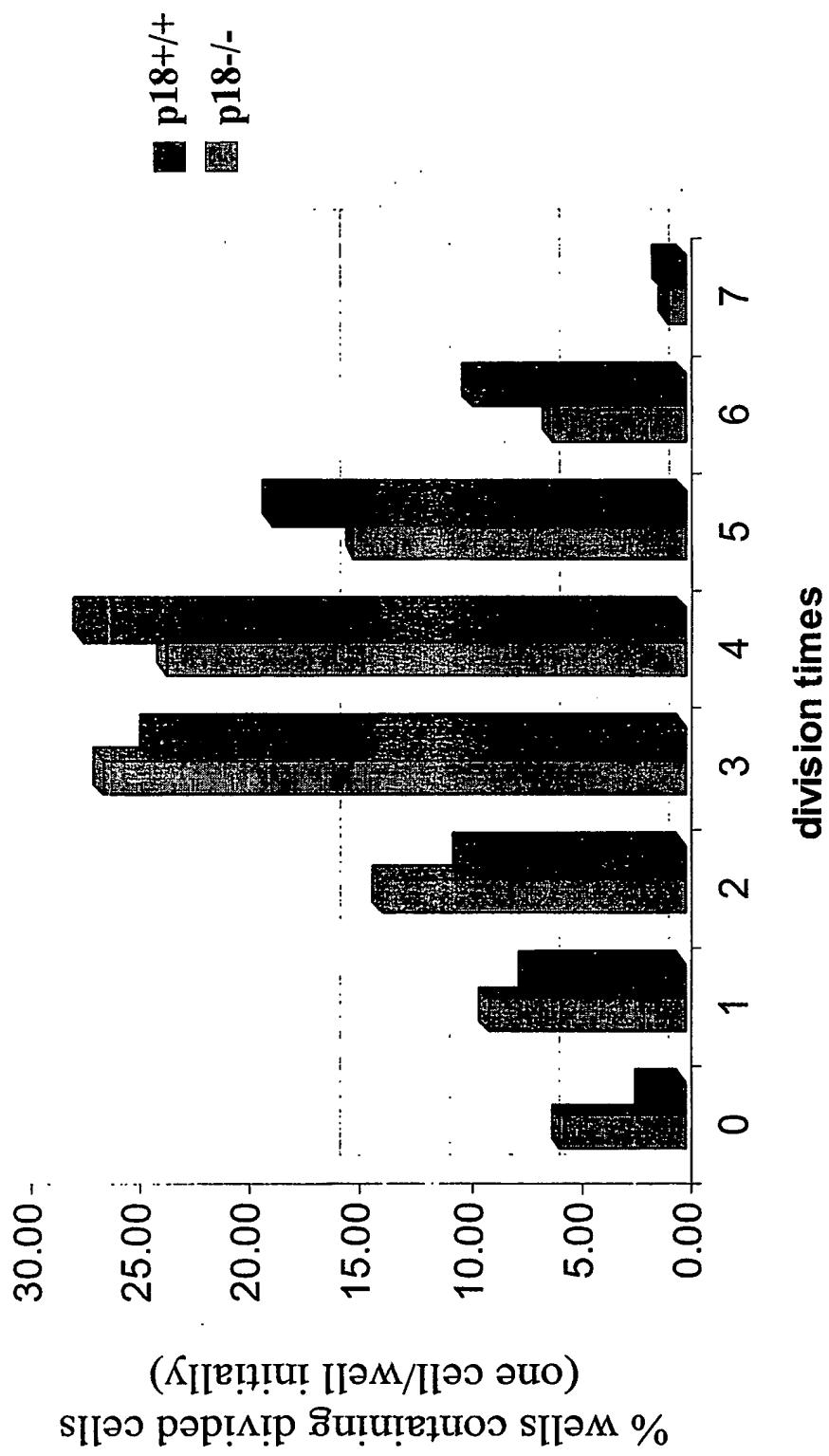


Fig. 6

A similar proliferative rate between p18⁺⁺ and p18^{-/-} genotypes during 3-day culture after single CD34-LKs cells from non-transplanted mice were plated

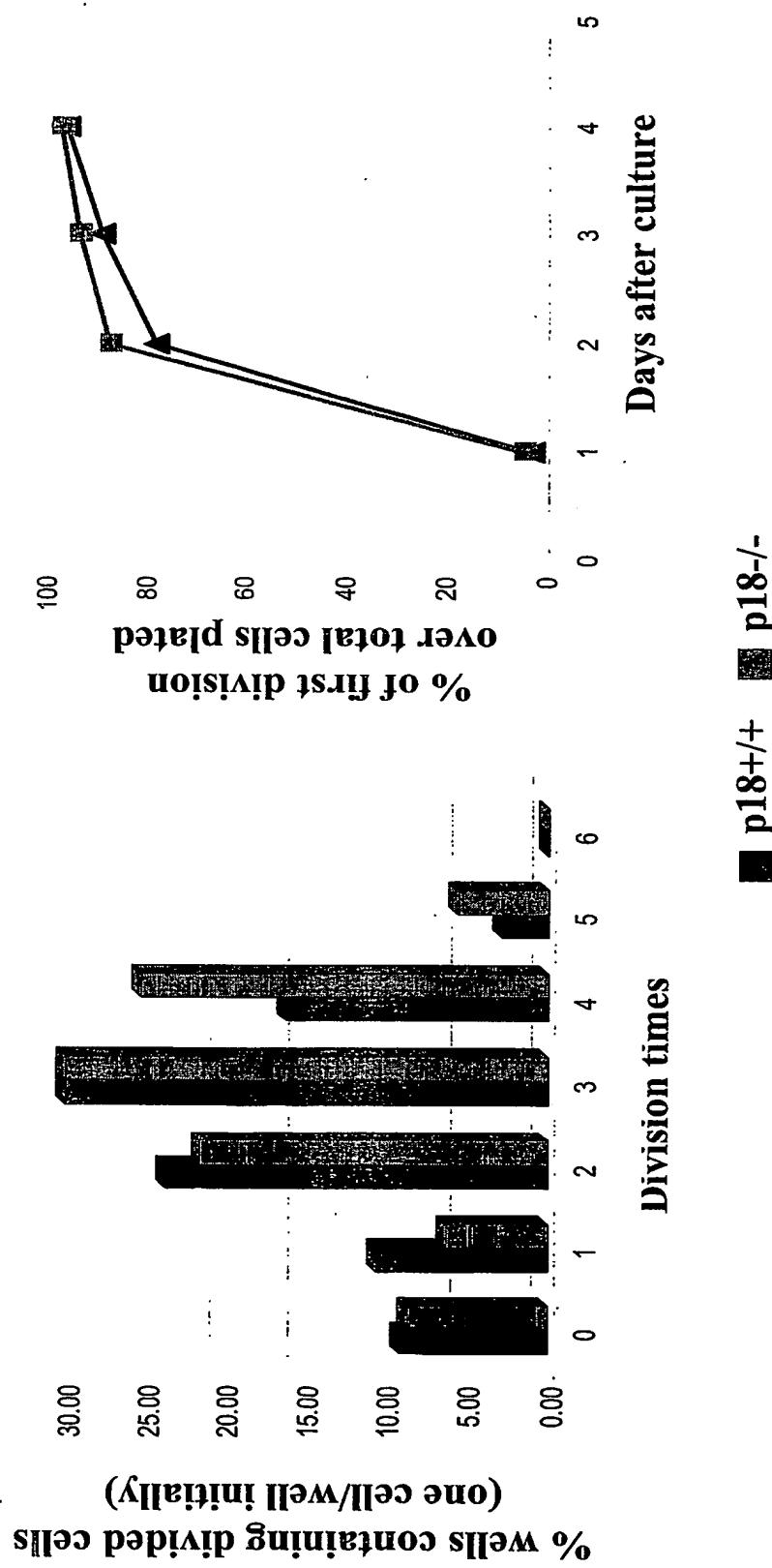
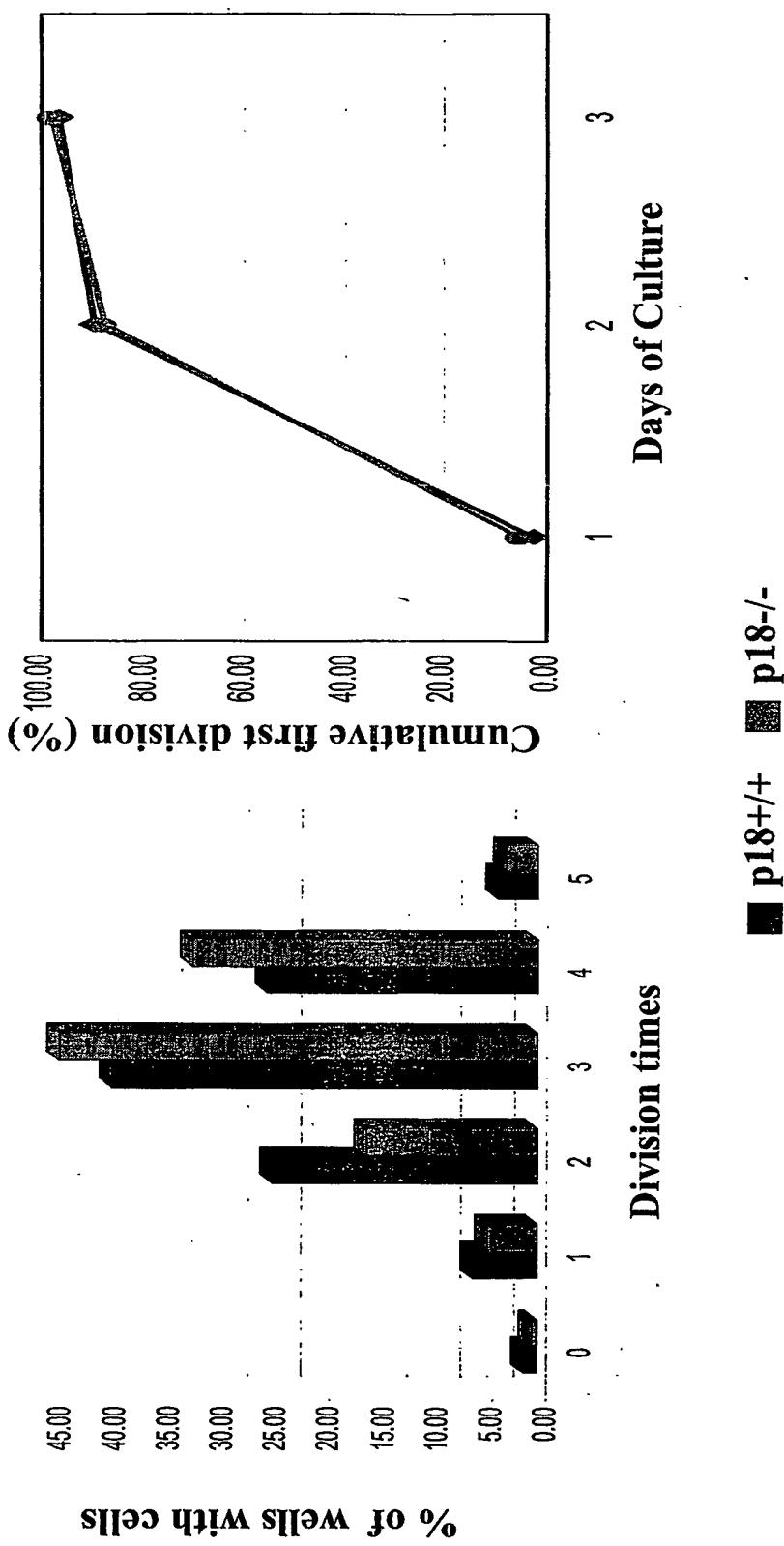


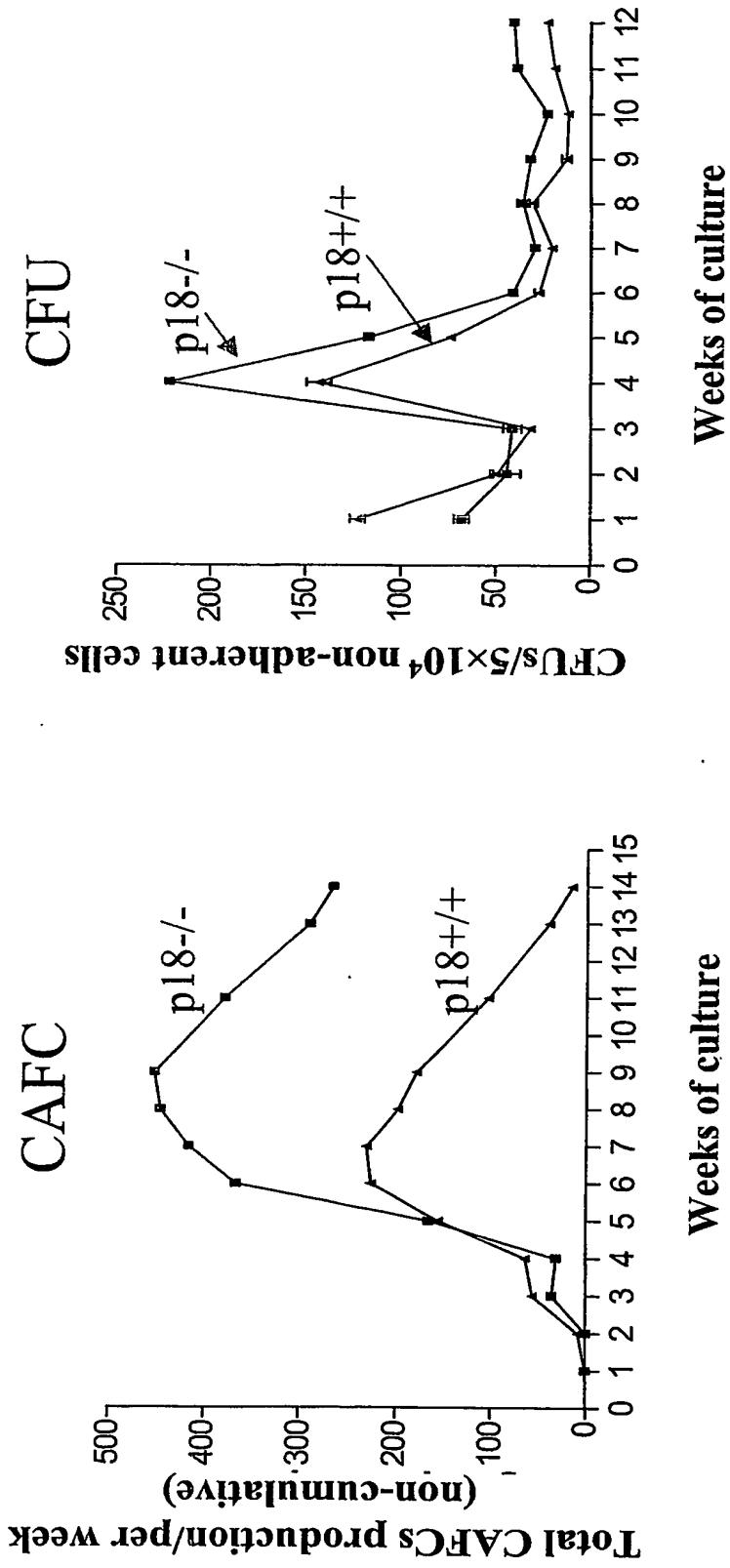
Fig. 7

Fig. 8

A similar proliferative rate between p18^{+/+} and p18^{-/-} genotypes during 3-day culture after single CD34-LKS cells from transplanted mice (2 months post transplant) were plated



Selective expansion of CAFC but not CFU during the long-term culture



Bone marrow cells from each mouse were cultured in two T75 flasks with the Dexter long-term culture medium, CAFCs were counted under microscope. Non-adherent cells were collected every week and used for CFC assay. Data were summarized from samples of 4 flasks from two mice in each group.

Fig. 9

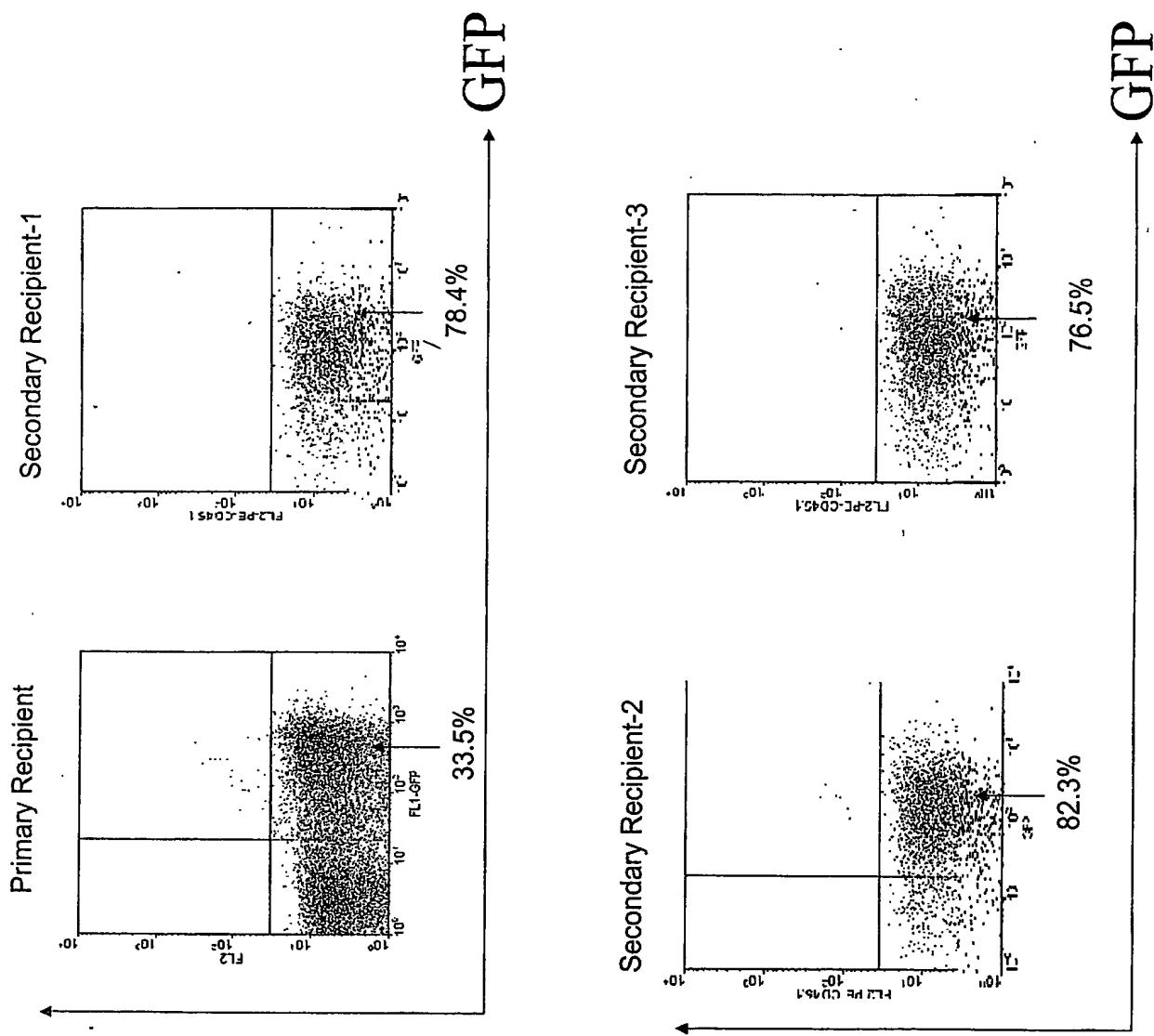


Fig. 10



Fig. 11

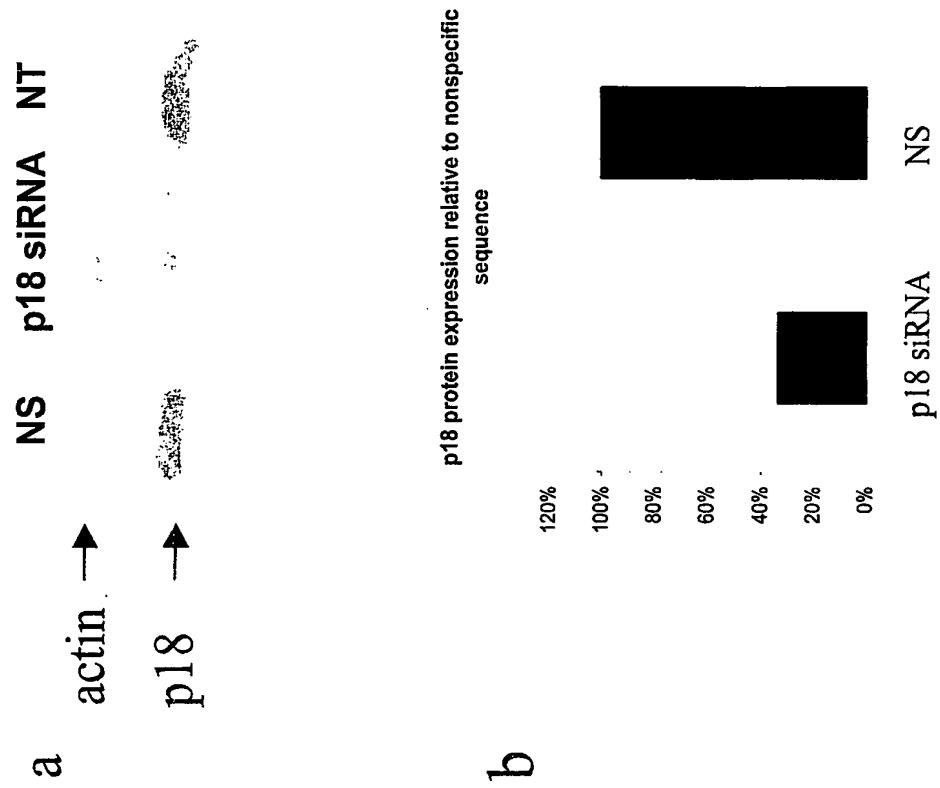
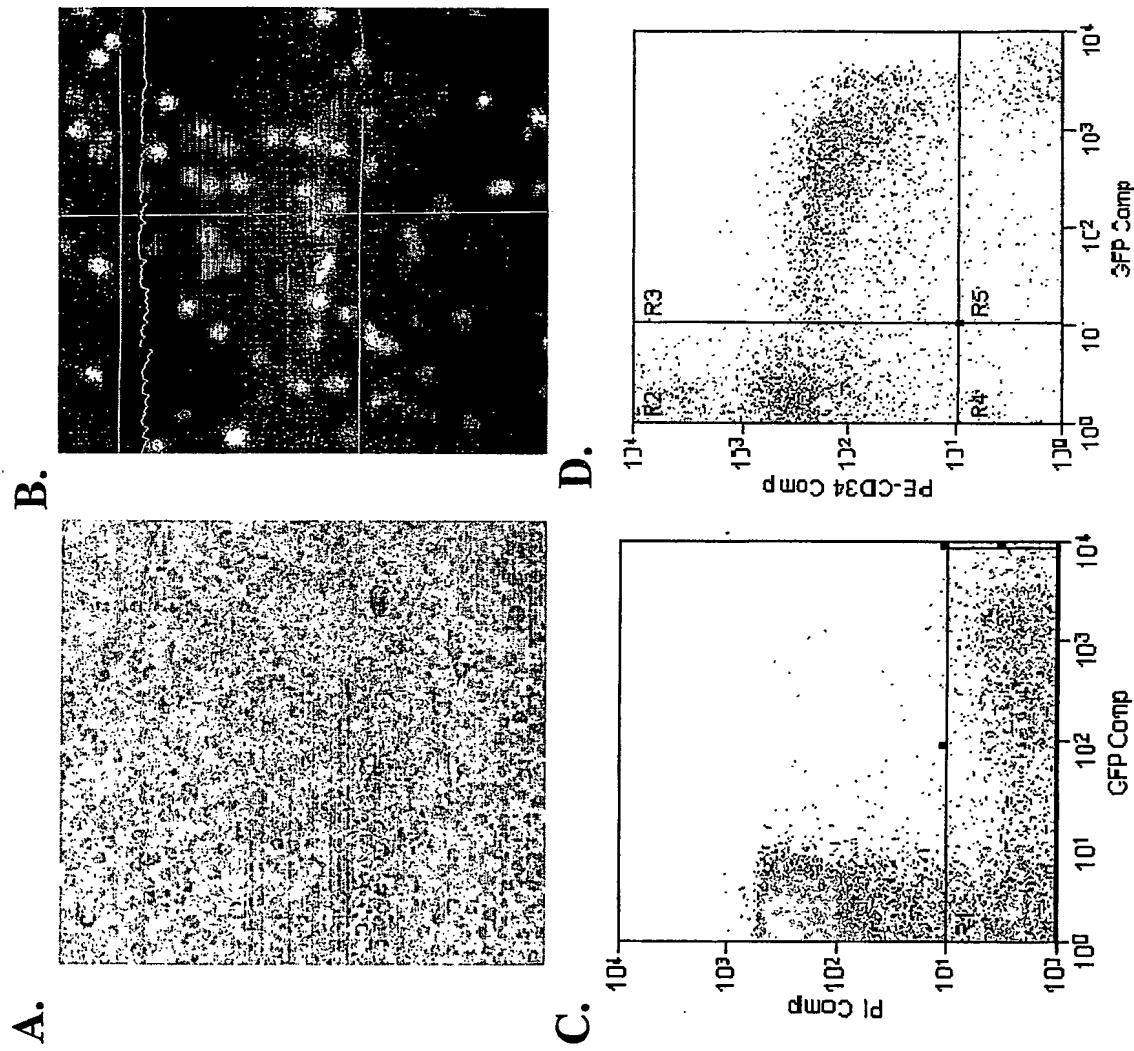


Fig. 12



Fluorescent microscopy
Contrast microscopy



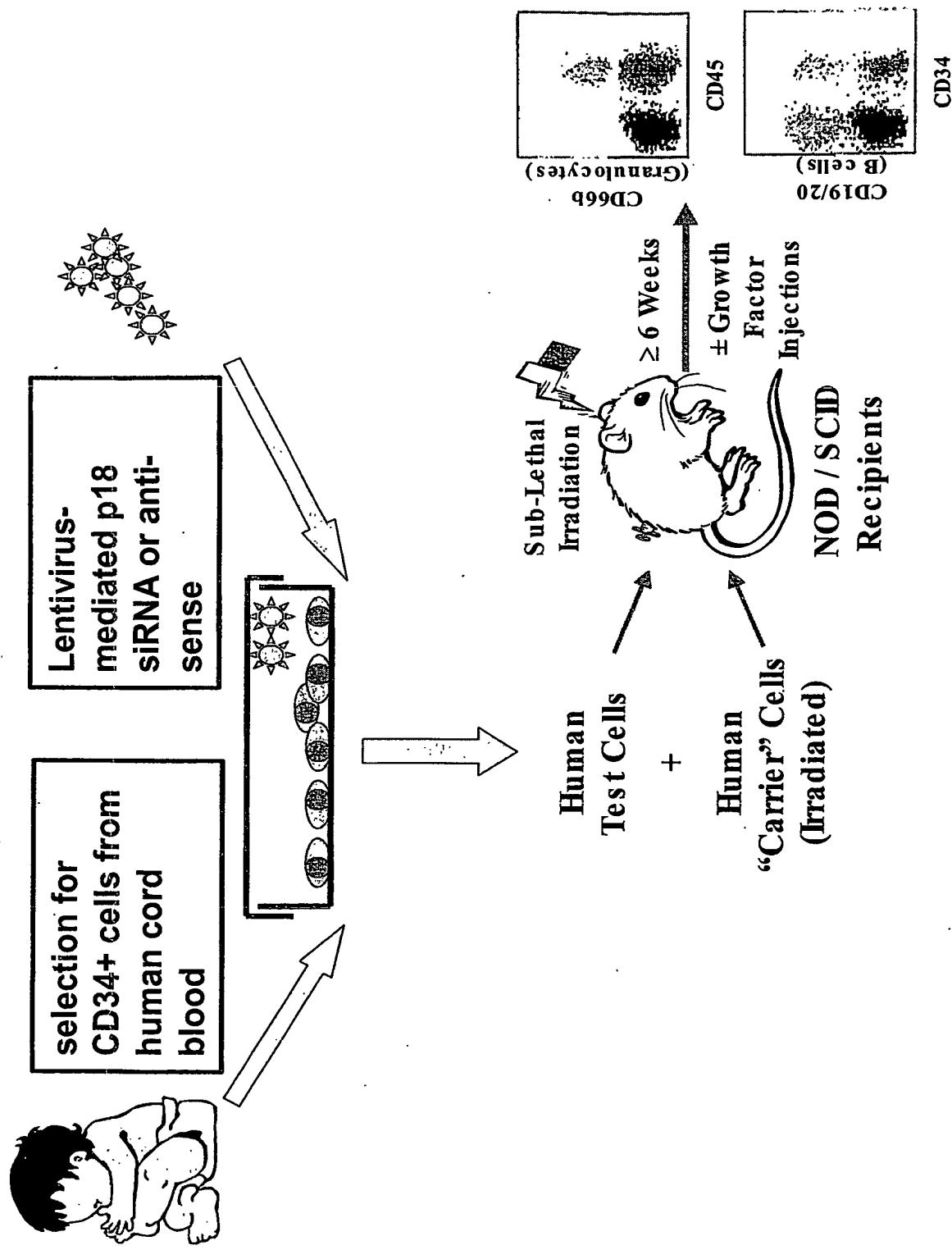
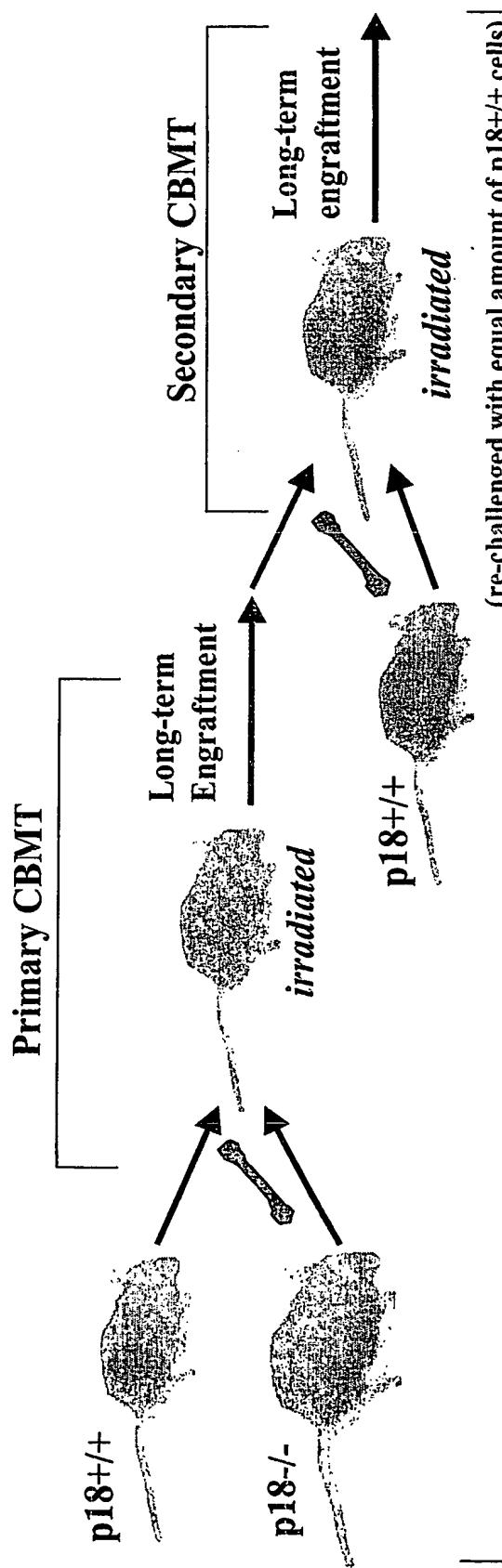


Fig. 15

Competitive and Serial Bone Marrow Transplantation

Fig 16

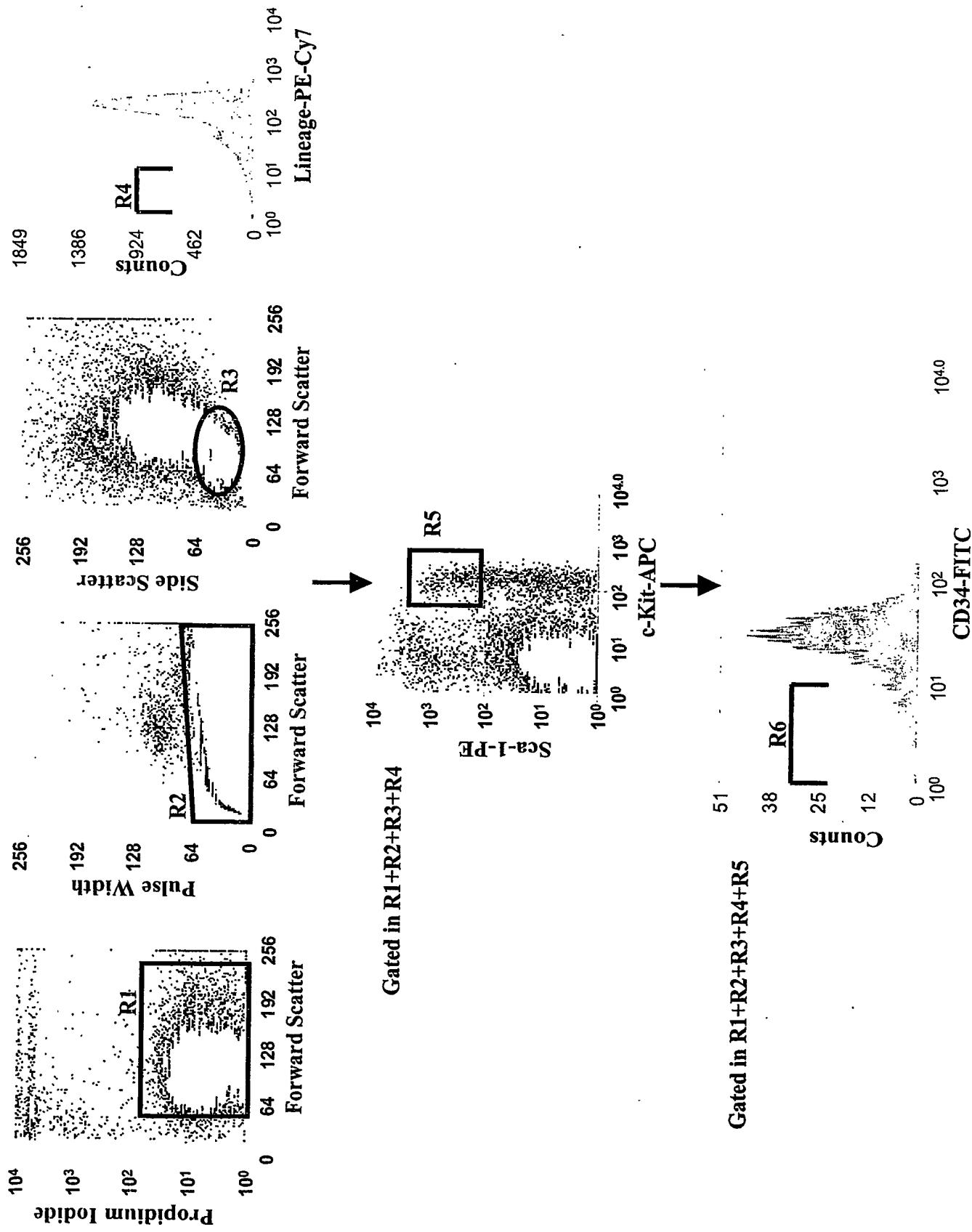


1. Semi-quantitative PCR analysis for ratios of the two competitive cell populations in bulk cells or different lineages based on relative intensities of the two genotypic bands on the gels;
2. Single cell or colony PCR for the absolute representation of each genotype in the stem or progenitor compartment based on the appearance of a distinct band on the gel.



Fig 17

Sorting strategies for CD34-LKS cells



Assay for the Competitive Repopulating Unit (CRU)

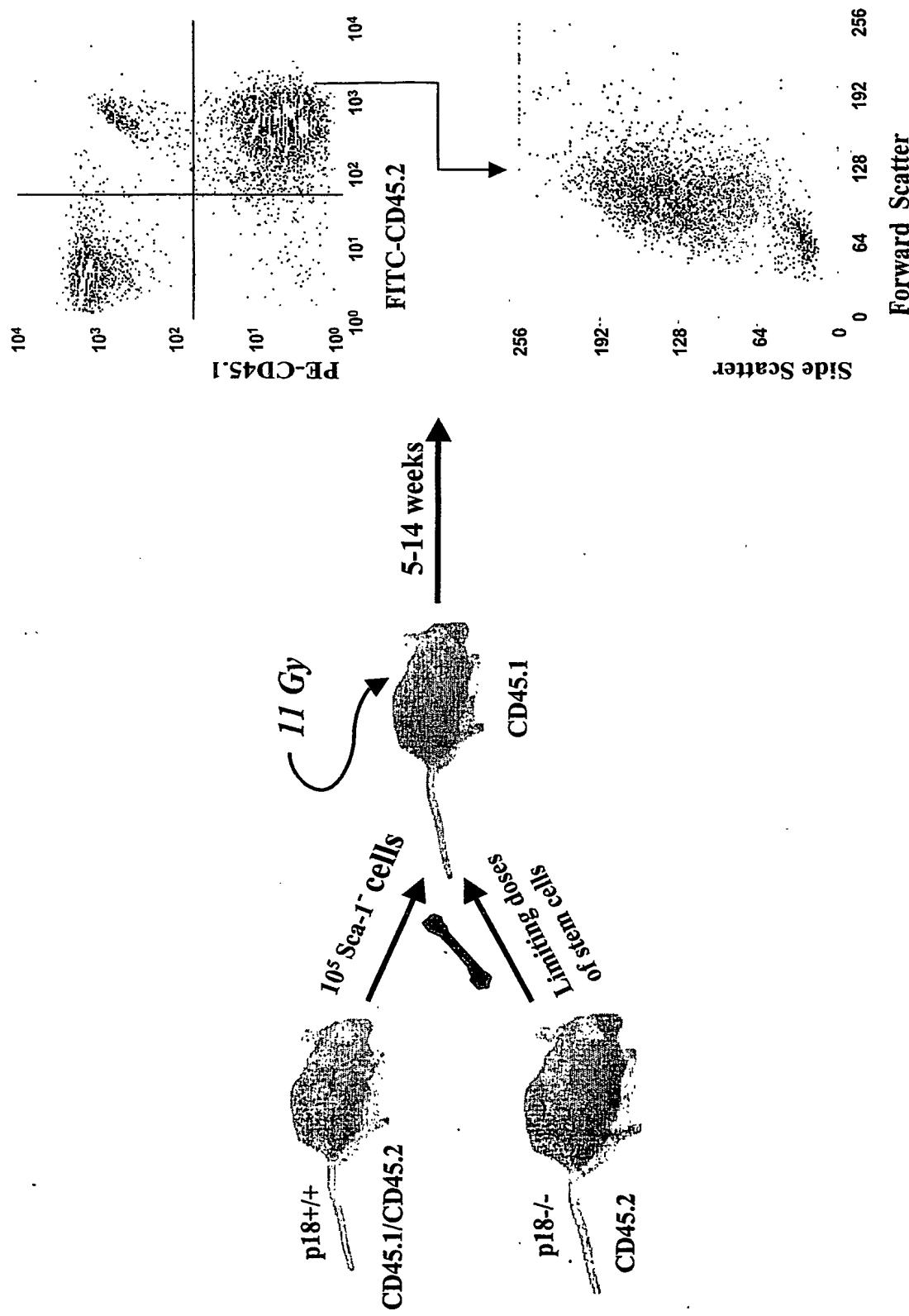


Fig 18

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